14 mar 2005

PATENT COOPERATION TREATY

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REC'D	23	MAR	2005
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

the softeness		C Natificatio	on of Transmittal of International			
Applicant's or agent's file reference	FOR FURTHER ACTION	Preliminary E	xamination Report (Form PCT/IPEA/416)			
4115-148-PCT International application No.	International filing date (day/moni	h/year)	Priority date (day/month/year)			
•	12 September 2003 (12.09.2003)		13 September 2002 (13.09.2002)			
PCT/US03/28697 International Patent Classification (IPC)						
IPC(7): A61K 31/505, 31/34, 31/36 and		_				
Applicant						
UNIVERSITY OF MARYLAND BIOTECHNOLOGY						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of	1 and including this gover sheet					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of	These annexes consist of a total of 2 sheets.					
3. This report contains indications relating to the following items:						
I Basis of the re	port					
II Priority						
III Non-establish	III Non-establishment of report with regard to novelty, inventive step and industrial applicability					
IV Lack of unity	of invention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain docum						
	The state of the s					
	vations on the international appl					
Date of submission of the demand	Dat	e of completion	on of this report			
24 March 2004 (24.03.2004)	1,20	March 2005 (03	.03.2005)			
Name and mailing address of the IPE. Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	y gre	eni (Padmanabl	v //			
Facsimile No. (703) 305-3230		ephone No. 57	1,272,1600			
Form PCT/IPEA/409 (cover sheet)(Jul	y 1770)					



١	International applies No.
	PCT/US03/28697

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	Basis of the report	ı
1.	With regard to the elements of the international application:*	ĺ
	the international application as originally filed.	
	the description: pages 1-50 as originally filed	
	Fled with the demand	
	pages NONE , filed with the letter of	
	the claims:	
	as originally filed	١
	pages NONE , as amended (together with any statement) under Afficie 19	
	pages NONE , filed with the demand pages 51-59 , filed with the letter of 19 January 2005 (19.01.2005)	
	pages 51-59 , filed with the letter of 19 January 2003 (19.01.2003)	
•	the drawings:	
	pages 1-15 , as originally filed	
	pages NONE filed with the demand	l
	pages NONE, filed with the letter of	
	the sequence listing part of the description:	١
	pages NONE , as originally filed	1
	pages NONE, filed with the demand pages NONE, filed with the letter of	
١,	arrived to the same of the elements marked shove were available or furnished to this Authority in the	1
۱ ٔ	to an in which the international application was filed. Hilless offici wise mendated and a series and	-
	These elements were available or furnished to this Authority in the following ranguage	
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).	١
	the language of publication of the international application (under Rule 48.3(b)).	
١	the language of the translation furnished for the purposes of international preliminary examination (under Rules	
	55.2 and/or 55.3)	
	33.2 and/or 33.3.5. 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the	
l	international preliminary examination was carried out on the basis of the sequence harmy.	
	contained in the international application in printed form.	-
١	filed together with the international application in computer readable form.	
١	furnished subsequently to this Authority in written form.	
	furnished subsequently to this Authority in computer readable form.	
١	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the	
١	international application as filed has been furnished.	
1	The statement that the information recorded in computer readable form is identical to the written sequence listing	ng
١	has been furnished.	
١	4. The amendments have resulted in the cancellation of:	
١		
1	the description, pages NONE	
1	the claims, Nos. NONE	
	the drawings, sheets/fig NONE	,
	5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go	•
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.	



International applies on No PCT/US03/28697

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. STATEMENT					
Novelty (N)	Claims	1-54	YES		
Novelly (11)		NONE	NO		
Inventive Step (IS)	Claims	NONE			
	Claims	1-54	NO		
			YES		
Industrial Applicability (IA)		1-54	NO		
	Claims	NONE			
extracellular recognition of a receptor by an infectious agent. Claims 1-54 lack an inventive step under PCT Article 33(3) as being obvious over the combined teachings of the cited prior art, Kempf et al. and Naldini et al. The combined teachings of the all cited prior art teach that the instant ingredients or compounds or agents are useful in composit and methods of inhibiting retroviral protease including HIV. Claims 1-54 meet the criteria of PCT Article 33(4) because the claimed compositions and a method for inducing increased levels anti-HIV chemokines in activated lymphocytes and a method for modifying synthesis of a receptor ligand to alter extracellular recognition of a receptor by an infectious agent have industrial applicability in the pharmaceutical art. Applicants' remarks filed 19 January 2005, in response to the Written Opinion mailed January 10, 2005, have been fully conside but not found persuasive in view of the prior art teachings. NEW CITATIONS NEW CITATIONS NONE					